RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE February 1999			
6 - Management and Support	Management and Support 0604258F Target Systems Development							ent	2459			
COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	-	2001 mate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost	
2459 Target Payloads	4,250	6,572	,	192	192	194	195	1,860	1,871	Continuing	Continuing	
Quantity of RDT&E Articles	0	0		0	0	0	0	0	0	0	0	

#### (U) A. Mission Description

Aerial Targets are used to determine air-to-air weapons effectiveness and mission proficiency of our tactical systems against enemy aircraft. The overall objective is to improve air-to-air weapons systems accuracy and reliability by developing improved aerial target systems for Air Force weapons system test and evaluation. The program develops full-scale and subscale aerial targets and target control systems. Specialized target payload subsystems are developed for full-scale and subscale targets for missile scoring, electronic and infrared (IR) countermeasures, and radar and IR signature augmentation. Electronic countermeasures and infrared countermeasures being developed include chaff and flare dispenser systems. The Drone Radio Frequency (RF) Electronic Enhancement Mechanism (DREEM) is being developed to provide subscale radar cross section (RCS) enhancement to replicate full size threat aircraft.

### (U) FY 1998 (\$ in Thousands):

- (U) \$1,413 Continued Program Definition and Risk Reduction (PDRR) for DREEM
- (U) \$865 Conducted Vector Doppler Scorer (VDOPS) Airborne Sensor Upgrade
- (U) \$268 Conducted Integrated Flight Controller Hardware in the Loop (IFC HWIL) Autopilot Simulation
- (U) \$122 Conducted DREEM Feasibility Study (Near Field)
- (U) \$32 Conducted Super Subscale Demonstration Gulf Range Drone Control System (GRDCS) Support
- (U) \$137 Completed Integrated Flight Controller (IFC) Advanced Maneuvers GRDCS Integration
- (U) \$67 Completed Electronic Countermeasures Pod Upgrade GRDCS Integration
- (U) \$1,062 Continued Support & Management
- (U) \$284 Conducted DREEM Demonstration Validation Testing
- (U) \$4,250 Total

Page 1 of 5 Pages Exhibit R-2 (PE 0604258F)

RDT&E BUDGET ITEM JU	ISTIFICATION SHEET (R-2 Exhibit	DATE Feb	ruary 1999
SUDGET ACTIVITY 6 - Management and Support	PE NUMBER AND TITLE  0604258F Target System	ems Development	ргојест <b>2459</b>
(U) FY 1999 (\$ in Thousands):	•		
	ond Destination Transportation - Support & Managema Systems, Communications and Assessment - Support		
(U) FY 2000 (\$ in Thousands):  - (U) \$192 Continue Support & Management - (U) \$192 Total			
(U) FY 2001 (\$ in Thousands):  - (U) \$192 Continue Support & Management - (U) \$192 Total			
J) B. <u>Budget Activity Justification:</u>			
This program is in budget activity 6 - Management Support	ort because it provides overall support to research and	development activities.	
Project 2459	Page 2 of 5 Pages	Exhibit R-2 (PE 06	604258F)

RDT&E BUDGET ITE	EM JUS	TIFICAT	ION SH	EET (R	-2 Exhil	oit)		DATE <b>Feb</b>	ruary 199	9
BUDGET ACTIVITY  6 - Management and Support				MBER AND T 4258F T		stems De	velopme		PR	OJECT   <b>59</b>
(U) C. Program Change Summary (\$ in Thousan	<u>ds)</u>		<del>.</del>							
(U) Previous President's Budget (FY 1999 PB)		<u>FY 1998</u> 4,491		<u>1999</u> ,666	FY 2000 195	<u>FY 200</u>	<u>01</u> 96	Total <u>Cost</u> Cont		
(U) Appropriated Value (U) Adjustments to Appropriated Value		4,780		5,666	1,0	-		Com		
<ul><li>a. Cong Reductions</li><li>b. SBIR</li></ul>		-228 -62		-94						
c. Omnibus or Other Above Threshold Reprogramming d. Below Threshold Reprogramming		-30 -210			2					
(U) Adjustments to Budget Years Since FY 1999 PF (U) Current Budget Submit/ FY 2000 PB	3	4,250	6	5,572	-3 192		-4 92	Cont		
Development PE used. FY99 funds to go to the Arm FY99 \$149 identified as a source for SBIR  (U) D. Other Program Funding Summary (\$ in T		ow test supp	ort aircraft.							
(U) PE35116F: Appropriation: Missile Procuremen	<u>FY 1998</u>		FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To <u>Compl</u>	Total
WSC MQM107 (MQM-107E)	6,665	3,821	r riogram i 0	inie. Taigei		0	0	0		Cost
		-,		· · · · · · · · · · · · · · · · · · ·	0	U		()	Cont	
	17,176	21,761	0	0	0	0		$0 \\ 0$	Cont Cont	Cont
WSC: M04AQF (QF-4) Spares: BQM-34, QF-4, MQM-107 Total	17,176 726 24,567	21,761 2,561 28,143		_			0			Cont Cont
WSC: M04AQF (QF-4) Spares: BQM-34, QF-4, MQM-107	726 24,567	2,561 28,143	0	0	0	0	0	0	Cont	Cont Cont
WSC: M04AQF (QF-4) Spares: BQM-34, QF-4, MQM-107 Total  (U) PE35116F: Appropriation: Aircraft Procuremen WSC: 10TRGT	726 24,567	2,561 28,143	0 0 0 Program 7 36,152	0 0 Fitle: Target 37,448	0 0 t Drones 37,727	0 0 38,257	0 0 48,009	0 0 40,061	Cont	Cont Cont Cont
WSC: M04AQF (QF-4) Spares: BQM-34, QF-4, MQM-107 Total  (U) PE35116F: Appropriation: Aircraft Procurement	726 24,567 t, AF Budge	2,561 28,143 et Activity: 10	0 0 ) Program T	0 0 Title: Target	0 0 t Drones	0	0	0	Cont Cont	Cont Cont Cont Cont Cont Cont

RDT&E BUDG	ET IT	EM J	USTI	FICA	TIOI	N SHE	ET (	R-2 E	xhib	it)		!	DATE	Febru	ary 19	99
BUDGET ACTIVITY  6 - Management and Support						PE NUM 0604		Targe	t Syst	tems	Devel	onme	nt			ROJECT 2 <b>459</b>
(U) E. Acquisition Strategy:						000 11		90				оро			_	. 100
The acquisition strategy is competitive	, cost plu	is contr	acts.													
(U) F. Schedule Profile																
(6) 11 2000			1998			FY	<u> 1999</u>				2000				2001	
<ul> <li>(U) Full-Scale Aerial Target Systems</li> <li>(U) QF-4</li> <li>- First Delivery (Lot 3)</li> <li>- Follow-on QF-4 Production Options</li> </ul>	1	2	3	4	1	2 X	3	4	1	2 X	3	4	1	2 X	3	4
(U) Target Payloads (U) DREEM - Contract Award 3/96						Λ				Λ				Λ		
<ul><li> Factory Testing</li><li> Ground Testing</li><li> Flight Testing</li></ul>		*		*	*	X										
Project 2459					Pag	e 4 of 5 I	Pages					Exhibit	: R-2 (P	E 0604	258F)	

RDT&E BUDGET ITEM JU	DATE February 1999	
BUDGET ACTIVITY 6 - Management and Support	PE NUMBER AND TITLE  0604258F Target Systems Development	PROJECT 2459
(U) Subscale Aerial Target Systems (U) MQM-107E - First Delivery - IOC (U) Non Developmental Item (NDI) SSAT - RFP - Contract Award - First Delivery - IOC (U) Dual Role SSAT (AFSSAT) - RFP - Contract Award - First Article	x x x x x x x x x x	X
Project 2459	Page 5 of 5 Pages	Exhibit R-2 (PE 0604258F)